

TSIRLIN, Yuriy Abramovich; ANDREYEV, K.P., red.

[Rectification of furfurole] Rektifikatsiya furfurola.
Moskva, Izd-vo "Lesnaia promyshlennost', 1964. 142 p.
(MIRA 17:6)

DOMBROVSKIY, V.V., kand.tekhn.nauk; TSIRLIN, Yu.L., inzh.; KARPENKO, V.P.

Internal short-circuits in the loop windings of synchronous machines.
Izv. vys. ucheb. zav.; energ. 6 no.10:16-21 O '63. (MIRA 16:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut elektromekhaniki,
Leningrad.

IPATOV, PLM., kand.tekhn.nauk; DOMBROVSKIY, V.V., inzh.; TSIRLIN, Yu.L., inzh.

Short-circuited turns in the loop windings of an asynchronous machine.
Vest. elektroprom. 33 no.7:36-43 J1 '62. (MIRA 15:11)
(Electric machinery--Windings)

TSIRLINA, D.L. (Karaganda); LAMM, Ya.Ye. (Karaganda)

Pathogenesis, treatment, and prevention of traumatic chronic bursitis
among miners. Gig.truda i prof.zab. 3 no.6:33-37 N-D '59.

(MIRA 13:4)

1. Karagandinskiy meditsinskiy institut.

(BURSITIS)

(KARAGANDA BASIN--COAL MINERS--DISEASES AND HYGIENE)

TSIRLINA, D. L. Dr. Med. Sci.

Dissertation: "Treatment of Infected Gunshot Hemothoraxes." Central Inst. for Advanced Training of Physicians. 20 May 47.

SO: Vechernaya Moskva, May, 1947 (Project #17836)

TSIRLINA, D.L., prof.; SMERDOVA, Ye.M.

Prevention and treatment of minor injuries of miners. Ortop.
travm.i protez. no.6:55-58 '61.
(MIRA 14:8)

1. Iz kliniki obshchey khirurgii (zav. - prof. D.L. TSirlina)
Karagandinskogo meditsinskogo instituta (dir. - dotsent P.M.
Pospelov).

(MINERS—DISEASES AND HYGIENE)

EXCERPTA MEDICA Sec 17 Vol 5/4 Public Health Apr 59

1144. COMPARATIVE EVALUATION OF PREPARATIONS USED IN COMBATING C.DIPHTHERIAE IN CONVALESCENTS (Russian text) - Flexer S. Ya. and Tsirlina F. G. - ZH. MIKROBIOL. (Mosk.) 1957, 12 (39-42)
Tables 1

Among the 4 preparations: chlortetracycline, tetracycline, chetylpiridinium derivative and chloramphenicol, which were used in convalescents from diphtheria who were chronic carriers, chlortetracycline and tetracycline were found more effective. Among 73 diphtheria patients treated with antibiotics, 13 showed relapses of the carrier stage. The large number of patients with chronic lesions of the tonsils and of the nose indicates the importance of the healthy condition of the nasopharyngeal cavity in the prophylaxis and treatment of diphtheria carriers.

Anigstein - Galveston, Tex. (L. 7, 17)

TSIRLINA, F.G.
FILEYER, S.Ya.; TSIRLINA, F.G.

Comparative evaluation of preparations used to control the carrying
of bacteria by diphtheria convalescents. Zhur.mikrobiol.epid. i immun.
28 no.12:39-42 D '57. (MIRA 11:4)

1. Iz detskoy gorodskoy klinicheskoy bol'nisay No.2 imeni Rusakova.
(DIPHTHERIA, transmission,
carriage in convalescence, evaluation of various
antibiotics (Rus)
(ANTIBIOTICS, therapeutic use,
diphtherial carriage control in convalescents, comparison
of various drugs (Rus)

PLEKSER, S.Ya., TSIRLINA, F.G., NOVOSELOVA, R.S.

Problem of arterial embolism in diphtheria. Sov.med. 22 no.9:
128-129 S '58 (MIRA 11:11)

1. Iz Moskovskoy detskoy gorodskoy klinicheskoy bol'nitsy №.2
imeni I.V. Rusakova (glavnnyy vrach - dotsent V.A. Kruzhkov).
(DIPHTHERIA, compl.
arterial embolism (Rus))
(EMBOLISM, compl.
arterial, in diphtheria (Rus))

SUKHAREVA, M.Ye.; BLYUMENTAL', K.V.; FLEKSER, S.Ya.; TSIRLINA, F.G.

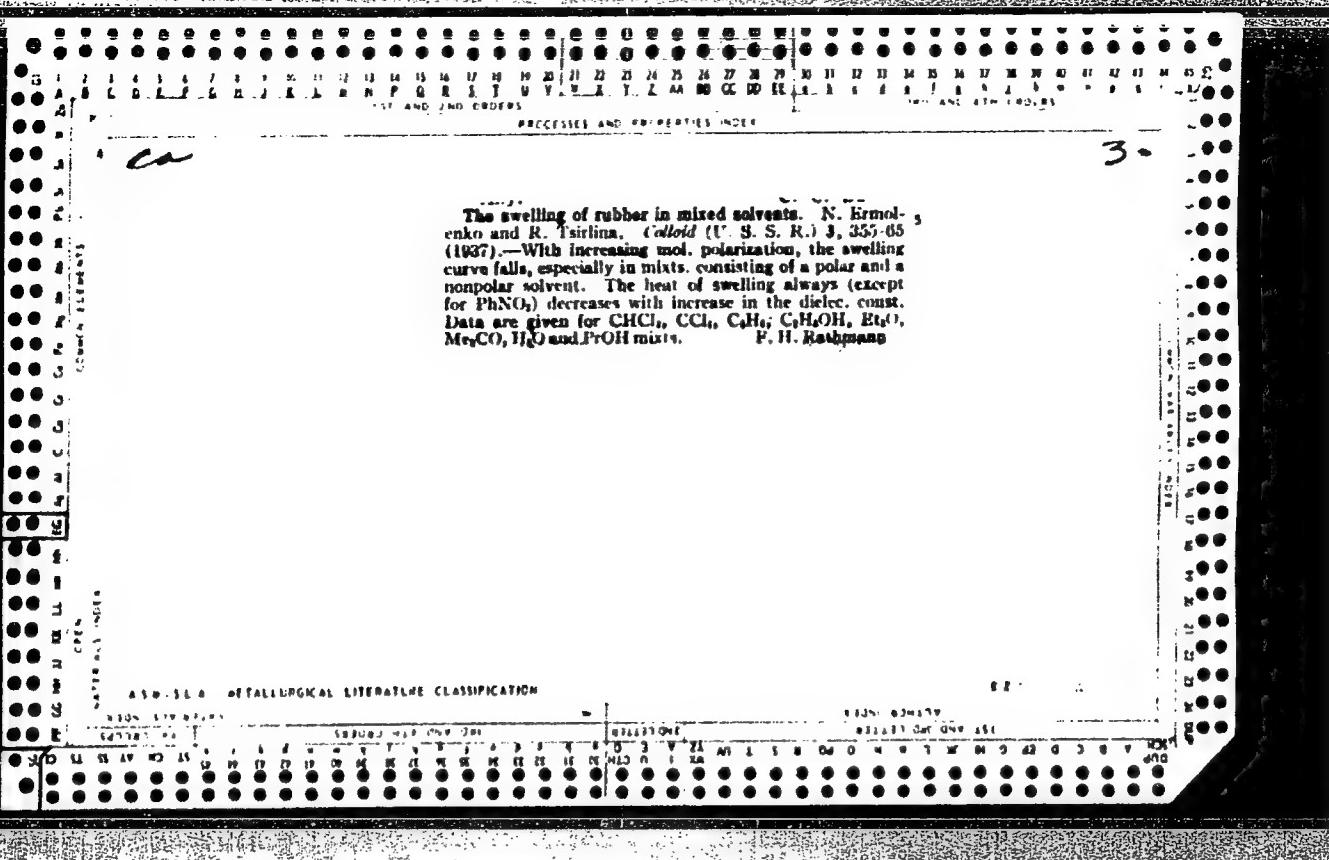
Characteristics of diphtheria during the period of its
eradication as revealed by form the diphtheria department
of Moscow. Vop. okh. mat. i det. 6 no. 2:6-11 F '61.
(MIRA 14:2)

1. Iz infektsionnogo otdela kafedry pediatrii TSentral'nogo
instituta usovershenstvovaniya vrachey (zav. - deyствител'nyy
chlen AMN SSSR prof. G.N. Speranskiy) i detskoj bol'nitsy
imeni I.V. Rusakova (glavnyy vrach zasluzhennyj vrach RSFSR
dotsent V.A. Krushkov).

(DIPHTHERIA)

SUKHAREVA, M.Ye., professor; FLEKSER, S.Ya., kandidat meditsinskikh nauk;
TSIRLINA, F.G.; TRET'YAKOVA, A.F.

Diphtheria index for 1955. Vop. okh. mat. i det. 1 no.4:3-7 Jl-Ag '56.
(DIPHTHERIA) (MIRA 9:9)



L 20649-66 ENP(e)/ENT(m)/EPF(n)-2/ENP(j)/T/ENP(+)/ETC(m) IJP(e) JD/WW/JG/PM/
ACC NR: AP6008834 WH (N) SOURCE CODE: UR/0294/66/004/001/0115/0119

AUTHOR: Kolosova, N. I.; Kharitonov, F. Ya.; Tsirlina, G. I.; Kostyukov, N. S.; Golubev, B. P.

ORG: Scientific Research Institute of High Temperatures (Nauchno-
issledovatel'skiy institut vysokikh temperatur)

TITLE: Testing the stability of corundum ceramics in liquid potassium
and sodium alloy

SOURCE: Teplofizika vysokikh temperatur, v. 4, no. 1, 1966, 115-119

TOPIC TAGS: corundum ceramic, ceramics corrosion, liquid corrosion,
potassium sodium alloy, liquid alloy

ABSTRACT: Three corundum-base materials GB-7 (97.09% Al₂O₃, 0.92% SiO₂, 0.08% Fe₂O₃, 0.90% CaO, 0.92% B₂O₃, 0.09% Na₂O), Microlite (also known as TsM-332 (99.34% Al₂O₃, 0.05% SiO₂, 0.03% CaO, 0.58% MgO), and A-1 (99.74 Al₂O₃, 0.05% SiO₂, 0.08 MgO, 0.10 Na₂O)) have been tested for their behavior in liquid potassium-sodium alloy. The specimens were prepared from finely ground powders mixed with thermosetting resins by hot pressure casting and two-step firing. The total content of bonding agent after first firing did not exceed 1%. GB-7 showed a 20% strength drop in preliminary tests at 400°C. The specimens of Microlite

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UDC: 621.345.612:553.65

L 20649-66

ACC NR: AP6008834

and A-1, 6—7 mm long, were held in sodium-potassium alloy at 700C for 400 hr. Both materials showed a water absorption of 0.03—0.04%, an open porosity of 0.12—0.14%, a bend strength drop of 10%, and a weight loss of less than 0.01%. Both Microlite and A-1 can be used for corrosion-resistant parts for prolonged operation in sodium-potassium alloy at 700C. Such parts are presently undergoing testing in this alloy under dynamic conditions. Orig. art. has: 3 tables. [WW]

SUB CODE: 11/ SUBM DATE: 22Oct64/ ORIG REF: 012/ OTH REF: 003
ATD PRESS: 4224

Card 212 BK

LOZOVOY, A.V.; TSIRLINA, R.N.

Transformations of certain hydrocarbons during hydrogenation
in the presence of an aluminum oxide - molybdenum oxide catalyst.
Zhur.prikl.khim. 33 no.1:216-222 Ja '60. (MIRA 13:5)

1. Institut goryuchikh iskopayemykh AN SSSR.
(Hydrocarbons) (Hydrogenation)

DEGTEV, O.N.; | rabote uchastvovala TSIRLINA, N.I., inzh.

Effect of the nature of the heat-transfer agent on the yield and
composition of gas during the thermal decomposition of peat.
Inzh.-fiz.zhur. no.11:61-64 N '60. (MIRA 13:11)

1. Vostochnyy filial Vsesoyuznogo teplotekhnicheskogo instituta
im. F.E.Dzerzhinskogo, Chelyabinsk.
(Peat gasification)

ACC NR: AP6021775

SOURCE CODE: UR/0413/66/030/012/0035/0035

INVENTOR: Adamovich, A. I.; Poznanskaya, E. M.; Fel'dman, R. M.; Sarenko, A. S.;
Mikhaylova, N. P.; Tsirlina, S. S.

ORG: None

TITLE: A method for producing diethylaminoethyl ester of diphenylacetic acid (base
of adiphenine). Class 12, No. 182715

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 12, 1966, 35

TOPIC TAGS: drug, ester

ABSTRACT: This Author's Certificate introduces a method for producing diethylamino-
ethyl ester of diphenylacetic acid (base of adiphenine). The technological process
is simplified by interacting diethylaminoethyl chloride in an aqueous solution with
an alkali metal salt of diphenylacetic acid.

SUB CODE: 07, 11/ SUBM DATE: 15Jul64

Card 1/1

UDC: 6,095.132;615.717

TIRLINA, S.S.

USER/Virology - Mumps Virus.

Abstr Jour : Ref Zhur - Biol., No 19, 1958, 85857
Author : Ilyachko, N.S., Gusarekova, I.L., Maslenikhova, L.K.,
Seme, N.L., Tsvirkina, S.S.
Inst Title : Specific Prophylaxis of Mumps. Report IV. A Study of
the Epidemiologic Effectiveness of Intracutaneous Ino-
culations with Live Attenuated Anti-Mumps Vaccine in
Children.
Orig Pub : Vopr. Virologii, 1958, No 1, 28-33
Abstract : No abstract.

Card 1/1

KLYACHKO, N.S.; GUSARSKAYA, I.L.; MASLENNIKOVA, L.K.; SENA, N.L.; TSIRLINA,
S.S.

Specific prophylaxis against mumps. Report No.4: Epidemiological
efficacy of living attenuated mumps vaccine inoculated intradermally
in children [with summary in English]. Vop.virus. ? no.1:28-33
Ja-F '58. (MIRA 11:4)

1. Virusologicheskaya laboratoriya Instituta imeni Pastera i
Nauchno-issledovatel'skiy pediatricheskiy institut Ministerstva
zdravookhraneniya RSFSR, Leningrad.
(MUMPS, prevention & control
living attenuated mumps vaccine, efficacy of intradermal
inject. in children (Rus)

30331
S/580/61/000/000/010/016
A057/A126

5.3f00

AUTHORS:

Tishchenko, I.G., Tsirlinskiy, B.V.

TITLE:

Reaction of 2-ethylhexene-2-al and acrolein with alkaline hydrogen peroxide

SOURCE:

Yerofeyev, B.V. and I.G. Tishchenko, eds. Zhidkofaznoye okisleniye nepredel'nykh organicheskikh soyedinenii, Minsk, 1961, 105 - 111

TEXT: The oxidation of 2-ethylhexene-2-al and acrolein with alkaline hydrogen peroxide was investigated, the reaction products were separated, characterized, and the reaction mechanism presented. The reaction between hydrogen peroxide and α -, β -unsaturated aldehydes is of interest in connection with similar studies of other authors, among them those of I.N. Nazarov et al., which investigated aliphatic α -, β -unsaturated ketones. The second purpose of the present work is to verify the results published by R. Hellmann et al. on the condensation products of acetone with butyraldehyde and problems related to similar reactions. The 2-ethylhexene-2-al was prepared by condensation of the n-butyraldehyde with acetone in alkaline medium and separated by fractional distillation, diluted in methanol, and oxidized by an excess of alkaline hydrogen peroxide

X

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Reaction of 2-ethylhexene-2-al

S/580/61/000/000/010/016
A057/A126

solution during 7 days. The following oxidation products were separated: 2-
-ethyl-2,3-epoxyhexanal (boiling point 69-70°C/14 mm, n_D^{20} 1.4310, d_{4}^{20} 0.9380),
n-butyric acid, and 2-ethyl-2-hexenoic-1 acid (boiling point 98.5°-99°C/2mm, n_D^{20}
1.4594). The structure of the latter was determined by catalytic hydrogenation
(Pt-H₂) resulting in α -ethylcaproic acid. Thus the oxidation of 2-ethylhexene-
-2-al occurs on two reactive centers with rupture of the hydrocarbon chain in the
double bond. Moreover, the formation of α -ethylcaproic acid proves that 2-ethyl-
hexene-2-al is formed by condensation of n-butyric aldehyde and acetone in alka-
line medium and not the cis-heptene-3-on-2 (the problem discussed by Hellmann et
al.). The oxidation of acrolein in acetone medium with an excess of alkaline
hydrogen peroxide and similar conditions with the above mentioned oxidation re-
sulted in the formation of formic acid with 42.3% yield and acrolein oxide.

Card 2/2

TISHCHENKO, I.G.; TSIRLINSKIY, B.V.

Reaction of 2-ethyl-2-hexenal and acrolein with alkaline
hydrogen peroxide. Zhidkofaz.okis.nepr.org.sced. no.1:105-111
'61. (MIRA 15:2)

(Hexenal)
(Hydrogen peroxide)
(Acrolein)

TSIROVSKIY, P., inzh.

Overall mechanization of the manufacture of vibrated brick panels.
Na stroi.Ros. 3 no.6:29-32 Je '62. (MIRA 16:7)
(Brick industry)

6(4)

06253

SOV/107-59-6-17/50

AUTHOR: Tsirs, G. (Murmansk)

TITLE: Beyond the Polar Circle - Interesting Observations

PERIODICAL: Radio, 1959, Nr 6, p 13 (USSR)

ABSTRACT: The author reports on long-distance contacts of Murmansk radio amateurs on 38-40 and 144-146 Mc. In winter 1958/59 stations in Gomel', Kursk, Voronezh, Penza, Yakutsk, Kyzyl, Irkutsk, Stalinabad and Vladivostok were contacted on 38-40 Mc. Signal passage was best from 0800 to 1800 hours. During the summer, long-distance contacts over 1000-2500 km may be established in the 38-40 Mc range. From January 6 to 10, 1959, contacts with stations in Perm', Moscow, and Leningrad were established on 38-40 Mc at night during a very intensive aurora borealis. Characteristic fading with a frequency of 10-15 cps was observed on either side.

Card 1/1

2. 1. 2. 3.

SOURCE: Geomagnetism i aeronomika, . S., . 1960. 170-173

TOPIC: DATA FROM THE SOVIET GEOMAGNETIC AND AERONOMIC

A

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001757120001-7

Where is the seat belt? - [redacted]

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001757120001-7"

ACCESSION NR: AP5005198

Kerbiay for useful comments', 'Trig. art. 19', '18, 3 figures and 1 table.

ASSOCIATION: Polyarnyy geofizicheskiy institut AN SSSR, Kola Branch (Polar Geophysics Institute, AN SSSR, Kola Branch)

SUBMITTED: 24Apr64

ENCL: 00

SUP CODE: EC, ES

NO REF Sov: 003

OTHER: 005

Card 3/3

*M.A.**18. Weisberg*

*The Determination of the Specific Pressure of Zinc in Hot-Rolling. N. V. Tsvetkov. *Vestn. Metalloobrabotki Non-Ferrous Metals*, 1940, (8), 88-95, etc. [In Russian.] The specific pressure (Δ) is defined as $\Delta = P B \sqrt{\frac{h}{h_1}}$, where P is the pressure of the metal on the rolls (kg.), B is the width of the strip being rolled (mm.), h and h_1 are the thicknesses of the strip before and after passage through the rolls (mm.), and R = radius of the rolls (mm.). A description is given of experiments carried out in two Russian works, in which zinc was hot rolled under a variety of conditions. The data obtained enabled a curve to be drawn showing Δ against $h_1 D$, D being $2R$. The character of the curve is briefly discussed.—N. B. V.

1963

'TSIRUL', V.A.

Determination of potassium and sodium in molasses stillage.
Ferm. i spirt.prom. 31 no.5:17-19 '65. (MIRA 12:8)

1. Ukrainskiy nauchno-issledovatel'skiy institut spirtovoy i
likero-vodochnoy promyshlennosti.

TSIRUL', V.A.

Simplified method for making Fischer reagent. Zav. lab. 24 no.
7:903 '58. (MIRA 11:?)

1. Institut sakharinoj promyshlennosti.
(Chemical tests and reagents)

AUTHOR: Tsirul', V. A. SOV/32-24-7-59 '65

TITLE: A Simplified Method for the Production of Fischer's Reagent
(Uproshchennyj metod prigotovleniya reaktiva Fishera)

PERIODICAL: Zavodskaya Laboratoriya, 1958, Vol. 24, Nr 7, pp. 903 - 903
(USSR)

ABSTRACT: Since Fischer's reagent on the one hand is unstable and for this reason should not be produced in larger quantities, and on the other hand the addition of sulfur dioxide to the iodine pyridine solution immediately before the titration is connected with a number of difficulties a method of the saturation of the iodine pyridine solution with gaseous SO₂ using a rheometer calibrated to a small gas passage (100 - 200 ml/min.) was devised. The diameter of the rheometer capillary is quoted to be 0,5 - 0,8 mm, and the glass tube (5 - 6 mm diameter) of the manometer part is filled with kerosene. The total height of the rheometer is 500 mm. Before and after the rheometer drying columns are arranged with the calibration being carried out at a certain level of the kerosene in the manometer by a saturation of iodine pyridine solutions which are weighed. As the introduction of SO₂ takes place slowly, a water cooling of the solution is

Card 1/2

SOV/32-24-7-59 65

A Simplified Method for the Production of Fischer's Reagent

sufficient, and in the case that the SO₂ is obtained from a bomb it is sufficient to open the latter until the kerosene has reached the level desired, and to wait until the time for calibration has passed. A diagram of the scheme is given. There is 1 figure.

ASSOCIATION: Institut sakharinoi promyshlennosti (Institute of Sugar Industry)

Card 2/2

AUTHOR Tsirul', V.A. 32-8-52/61
TITLE A Special Burette for Titration with Fischer's Reagent.
(Usovershenstvovannaya byuretka dlya titrovaniya reaktivom Fischer'a.)
PERIODICAL Zavodskaya Laboratoriya, 1957, Vol.23, Nr 8,
pp. 1001-1001 (USSR)
ABSTRACT In the case of titration experiments carried out with water
and with Fischer's reagent it is important to take the
effect of daylight and of the moisture of the air into
account. For this purpose more or less complicated burettes
are used. One of them is recommended here, which is said
to eliminate the influence of daylight and air moisture.
The device consists of a burette of the usual type of 25 ml,
which, in its upper part, develops into a pistonlike funnel
of 1 litre content. In between a cock is provided. Some-
what farther below, at a branch of the burette, a calcium
chloride tube is connected. The pistonlike funnel is
painted black, it is closed, and is provided with an inlet
connection by means of a calcium chloride tube. The entire
device is fastened in such a manner that on a stand, which
is provided with plugs pointing in a lateral direction and
fitted in the inside with a thick protecting layer of
rubber, the burette is suspended and held fast before its
CARD 1/2

A Special Burette for Titration with Fischer's Reagent.

32-8-52/61

extended piston part, so that, in its lower part, it may be caused to perform a pendulum-like motion, which may serve for stirring the liquid contained therein. In the lower part of the burette, where also a straight-way cock is fitted, a rubber stopper is fitted to the capillary end, up which the titration piston is pressed and connected. A calcium chloride tablet, leading in a lateral direction, passes through the same rubber stopper. When at rest, the burette, because of a possible pendulum movement, is fixed in its lower part by means of the plugs connected with the stand.

There is 1 figure.

ASSOCIATION: All-Union Scientific Research Institute for the Sugar Industry. (Vsesoyuznyy nauchno-issledovatel'skiy institut zakharnoy promyshlennosti.)
AVAILABLE: Library of Congress.

CARD 2/2

TSIRUL', V.A.

Improved buret for titration with Fischer reagent. Zav. lab. 23
no. 8:1001 '57. (MLRA 10:11)
(Burettes) (Chemical tests and reagents)

BENIN, G.S.; TSIRUL', V.A.

Rapid methods for determining moisture in pulp. Sakh. prem. 30
no.12:51-53 D '56. (MLRA 10:1)

1. Tsentral'nyy nauchno-issledovatel'skiy institut sakharney
promyshlennosti.
(Bagasse)

TSIRUL', V.A.

Using the method of flame photometry for determining potassium
and sodium content of sugar products. Trudy TSINS no.7:74-86
'60. (MIRA 16:2)

1. Laboratoriya khimiko-tehnicheskogo kontrolya TSentral'nogo
nauchno-issledovatel'skogo instituta zakharnoy promyshlennosti.
(Potassium—Analysis) (Sodium—Analysis) (Sugar)

BENIN, G.S.; TSIRUL', V.A.

Determining the moisture content of sugar products. Trudy
TSINS no.7:61-73 '60. (MIRA 16:2)

1. Laboratoriya khimiko-tehnicheskogo kontrolya TSentral'nogo
nauchno-issledovatel'skogo instituta sakharinoj promyshlennosti.
(Sugar manufacture) (Moisture--Measurement)

TSIRUL', V.A.

Exchange of experience. Zav. lab. 28 no.9:1083 '62.
(MIRA 16:6)

1. TSentral'nyy nauchno-issledovatel'skiy institut sakharnoy
promyshlennosti.
(Calcium—Analysis)
(Flame photometry)

T. A. L. J. A. H.

PHASE I BOOK EXPLOITATION

SOV/4226

Riga. Universitate

Uchenyye zapiski, t. 14, Khimicheskiy fakul'tet, 4 (Scientific Notes, Vol 14,
Chemistry Faculty, 4) Riga, 1957. 251 p. 550 copies printed.

Eds. (Title page): A.F. Iyevin'sh, Professor, Doctor of Chemistry; L.K. Lepin',
Member of the Academy of Sciences Latviyskaya SSR, Professor, Doctor of
Chemistry; G.Ya. Vanag, Professor, Doctor of Chemistry; Tech. Ed.: A. Peterson.

PURPOSE: This book is intended for inorganic chemists and scientists in the ceramics
industries.

COVERAGE: The book contains 22 articles on organic chemical synthesis and analysis
and the physicochemical properties and compositions of ceramic and refractory
materials. No personalities are mentioned. Figures, tables, and references
accompany the articles.

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Scientific Notes (Cont.)

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AVAILABLE: Library of Congress

Card 4/4

JA/rn/sfm
9/29/60

ACC NR: AP6026757

SOURCE CODE: UR/0197/66/000/007/0125/0129

AUTHOR: Britse, M. A.; Tsirule, D. R.; Kimenis, A. A.

ORG: Institute of Organic Synthesis, AN LatSSR (Institut organicheskogo sinteza,
AN LatSSR)

TITLE: Spasmolytic activity of some 2-amino-2-phenylphenalenediones

SOURCE: AN LatSSR. Izvestiya, no. 7, 1966, 125-129

TOPIC TAGS: aminophenylphenolenedione derivative, spasmolytic activity, DRUG
EFFECT, PHARMACOLOGY

ABSTRACT: Spasmolytical activity of the M-1 — M-10 2-amino-2-phenylphenalene-1,3-diones of the general formula:
where R' is H or CH₃, R'' is CH₃, C₂H₅, C₃H₇, C₄H₉, C₅H₁₁, C₆H₁₁
(cyclohexyl), and CH₂CH₂OH, was studied on an isolated section
of small intestine and intraperitoneally in white mice. The re-
sults are given in Table 1. The results are discussed in terms
of the effect of various substituents on the pharmacological
activity of the compound studied. Compounds in which one or both
H atoms are substituted by R' or R'' showed M-cholinolytic, antihista-
minic, and myotropic spasmolytic activities. 2-Aminophenylphenalene

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ACC NR: AP6026757

and its homologs with one H atom in the amino group replaced by CH₃, C₂H₅, or C₂H₅O cause clonic spasms. Higher doses are lethal. Analogs with longer radicals (butyl, amyl, and cyclohexyl) do not cause spasms and are only slightly toxic. [WA-50; CBE No. 11]

SUB CODE: 07/ SUBM DATE: 07Feb66/ ORIG REF: 008/ OTH REF: 001/

Card 2/2

GRIBOYEDOV, D.N. [deceased]; ANDROSOV, V.F.; TSIRULE, E.R.

Effect of light and weather on the strength of polyamide fibers
(capron), wool and silk. Izv. vys. ucheb. zav.; tekhn. tekst. prom.
no.3:112-120 '59. (MIRA 12:11)

1. Leningradskiy tekstil'nyy institut im. S.M. Kirova.
(Textile research) (Fibers--Testing)

TSIRULE, E.R.; ANDROSOV, V.F.

Dyeing rayon crepe fabrics with vat sols in winches. Izv.vys.ucheb.
zav.; tekhn.tekst.prom. no.4:125-128 '60. (MIRA 13:9)

1. Leningradskiy tekstil'nyy institut im. S.M.Kirova.
(Dyes and dyeing--Rayon)

L 1328-66 EWT(1)/EWA(j)/EWT(m)/EPF(c)/EWP(j)/EWA(b)-2/EWA(c) RO/JK/RM
ACCESSION NR: AT5023365 UR/0020/65/164/001/0099/0102

AUTHOR: Giller, S. A. (Academician AN LatSSR); Vereshchagin, L. I.; Venter, K. K.;
Korshunov, S. P.; Tsirule, V. V.; Lolya, D. O.

TITLE: 2-Furyl and 5-nitro-2-furyl alkynyl ketones

SOURCE: AN SSSR. Doklady, v. 164, no. 1, 1965, 99-102

TOPIC TAGS: fungicide, antivirus agent, ketone, acetylenic ketone, furyl alkynyl ketone

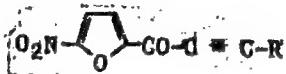
ABSTRACT: This work was undertaken in the course of a search for compounds with fungicidal and antiviral agents. Furyl alkynyl ketones had been previously prepared by the authors from the corresponding carbinols by oxidation with activated manganese dioxide. 5-Nitrofuryl arylalkynyl ketones were obtained by nitration of the corresponding ketones. The reaction conditions are dictated by the nature of the aryl group attached to the acetylene function. Ketones containing an unsubstituted phenyl group, or a phenyl group bearing electron-donating substituents are readily nitrated in acetic anhydride at -25°C, without a catalyst. When the phenyl group bears electron-withdrawing substituents (Cl, Br), the reaction temperature must be raised to 0—5°C, and catalytic amounts of sulfuric acid must be added. In all cases, selective nitration occurs, yielding 5-nitro-2-furyl ketones. In this

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L 1328-66

ACCESSION NR: AT5023365

manner, a series of ketones was prepared:



where R = phenyl, p-tolyl, p-chlorophenyl, m-bromophenyl, p-bromophenyl. The yields and physical constants of the above compounds and their semicarbazones are given in tabular form. The results of biological tests of the compounds obtained will be presented in a separate paper. Orig. art. has: 2 tables. [YS]

ASSOCIATION: Institut organicheskogo sinteza Akademii nauk LatSSR (Institute of Organic Synthesis, Academy of Sciences, LatSSR); Institute nefte- i uglekhimicheskogo sinteza pri Irkutskom gosudarstvennom universitete im. A. A. Zhdanova (Institute of Petroleum and Coal Chemistry Synthesis at the Irkutsk State University)

SUBMITTED: 05Apr65

NO REF SOV: 005

ENCL: 00

OTHER: 006

SUB CODE: OC, GC

ATD PRESS: 4103

Card 2/2

VENTER, K.K.; GILLER, S.A., akademik; KUCHEROV, V.F.; TSIRULE, V.V.
[Cirule, V.]; KARKLINYA, A.M. [Karklina, A.]

Syntheses in the domain of 5-nitrofuryl-2-polyalkenals and
5-nitrofuryl-2-polyalkenones. Reaction of carbethoxymethylene-
triphenylphosphorane and acetylmethylenetriphenylphosphorane
with ~~1,4~~-unsaturated and polyene aldehydes of the 5-nitrofuran
series. Dokl. AN SSSR 140 no. 5:1073-1075 0 '61.

(MIRA 15:2)

1. Institut organicheskogo sinteza AN Latviyskoy SSR.
2. AN Latviyskoy SSR (for Giller).
(Phosphorane)
(Furan)
(Aldehydes).

GILLER, S.A., akademik; VERESHCHAGIN, L.I.; VENTER, K.K.; KORSHUNOV, S.P.;
TSIRULE, V.V. [Cirule, V.]; LOLYA, D.O.

2-Furyl and 5-nitrofuryl-2-acetylene ketones. Dokl. AN SSSR
164 no.1:99-102 S '65. (MIRA 18:9)

1. Institut organicheskogo sinteza AN Latviyskoy SSR i Institut
nefte- i uglekhimicheskogo sinteza pri Irkutskom gosudarstvennom
universitete im. A.A. Zhdanova. 2. An Latviyskoy SSR (for Giller).

BANKOVSKIY, Yu.A. [Cirule, J.]; TSIRULE, Ya.A. [Ievins, A.]; IYEVIN'SH, A.F.

Use of β -quinolinethiol (thiooxine) and its derivatives in analysis.
Report No.18: Gallium, indium, and thallium thiooxinates. Photo-
metric determination of indium with thiooxine. Zhur.anal.khim.
16 no.5: 562-572 S-0 '61. (MIRA 14:9)

1. Institute of Chemistry, Academy of Sciences, Latvian S.S.R.,
Riga.

(Quinolinethiol) (Gallium--Analysis) (Indium--Analysis)

✓

ZAPOL', B.; KUNIN, P.; TAKSAR, I.; TSIRULE, Z. [Cirule, Z.]

Effective potential method for calculating the energy
spectrum and wave functions of univalent atoms. Izv. AN
Latv. SSR no.10:54-56 '63. (MIRA 17:1)

GOLDOVSKIY, Yevsey Mikhaylovich, prof.; PROVOROV, S.M., prof.,
retsenzent; BLYUMBERG, I.B., retsenzent; MELIK-STEPANYAN,
A.M., retsenzent; TSIRULINA, Z.V., dots., retsenzent;
TSIVKIN, M.V., retsenzent; EYSYMONT, L.O., red.

[Fundamentals of motion-picture techniques] Osnovy kino-
tekhniki. Moskva, Iskusstvo, 1965. 634 p.

(MIRA 18:7)

GOLOGORESKIY, V.A. (Moskva, v-49, ul. Dimitrova, d. 40, kv.42); TSIRUL'NIK, S.I.
(Moskva, B-66, Novo-Basmannaya ul. d. 31, kv.17)

Endotracheal anesthesia in oncogynecological surgery. Vop. onk. 9
no.10:75-82 '63.

(MIRA 17:12)

?• Iz kafedry obozreniy khirurgii (zav. - zasluzhennyy deyatel' nauki
prof. G.P.Zaytsev) i kafedry akusherstva i ginekologii (zav. - prof.
A.A.Lebedev) pediatricheskogo fakul'teta 2-go Moskovskogo gosudarstvennogo
meditsinskogo instituta imeni N.I.Pirogova).

GORBANENKO, A.D., kand. tekhn. nauk; TSIRUL'NIKOV, L.M., inzh.

Complete combustion of liquid fuel in a boiler furnace.
Elek. sta. 34 no.7:ll-13 Jl '63. (MIRA 16:8)

AKHMEDOV, R.B.; GORBANENKO, A.D.; ZHARKOV, B.L.; TSIRUL'NIKOV, L.M.

Flow ratio from centrifugal atomizers. Izv. AN Uz. SSR. Ser.
tekh. nauk 9 no. 1:72-76 '65 (MIRA 19:1)

1. Institut ispol'zovaniya topliva Gosneftekhimkomiteta pri
Gosplane SSSR.

TSIRUL'NIKOV, M.S.

True placenta accreta in regional presentation. Sov.med. 23 no.11:
148-149 N '59. (MIRA 13:3)

1. Iz rodil'nogo doma No.12 (glavnuyy vrach M.M. Repina), Moskva.
(PLACENTA)

TSIRUL'NIKOV, M.S.; PERMYAKOV, N.K.; VOLOONKIN, G.V.

Effect of prolonged administration of estrogenic preparations on
the development of cancer of the corpus uteri. Sov. med. 27 no.3:
82-84 Mr '64. (MIRA 17:11)

1. Ginekologicheskaya klinika (ispolnyayushchiy otvetsannosti ruko-
voditelya - kand. med. nauk N.K. Permyakov) Instituta skoroy pomo-
shchi imeni Sklifosovskogo (glavnnyy khirurg - chlen-korrespondent
AMN SSSR zasluzhennyy deyatel' nauki prof. B.A. Petrov, dir. -
zasluzhennyy vrach UkrSSR M.M. Tarasov.

SHEVAKIN, Yu.F.; RYTIKOV, A.M.; TSIRUL'NIKOV, V.A.

Sizing the dies for drawing rectangular tubes with walls of
equal thickness. Izv. vys. ucheb. zav.; tsvet. met. 8 no.3;
148-154 '65.
(MIRA 18:9)

1. Moskovskiy institut stali i splavov, kafedra tekhnologii i
avtomatizatsii prokatnogo proizvodstva.

EMP(j)/EM(m)/BDS-AFFTC/ASD-Pc-4-RM
L 10780-63

ACCESSION NR: AP3000400

AUTHOR: Reznikov, A. N.; Tsurulina, Ye. A.

TITLE: Cutting forces and surface finish in turning plastic parts of increased precision

SOURCE: Plasticheskiye massy, no. 5, 1963, 36-40

TOPIC TAGS: plastics machining, cutting force, cutting rate, emulsion, poly-styrene

ABSTRACT: The Nauchno-prizvodstvennyya instrumental'naya laboratoriya Kuybyshhevskogo politekhnicheskogo instituta (Scientific-Industrial'nyaya laboratoriya Kuybyshhevskogo politekhnicheskogo instituta) has developed the optimum tool geometry and cutting rates for turning PTZV plastic parts (emulsion polystyrene filled with fired titanium dioxide). Fusion of this plastic in turning can therefore be eliminated, and high-precision machining is thus made possible. Study of the effect of cutting rates and tool material showed that the best results are produced by tungsten-titanium T14K8 and T15K6 carbide tools [14 and 15% TiC and 8 and 6% Cr]

ASSOC.
SUBMITTED.
SUB CODE: MA

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001757120001-7

Card

mcs/cs
2/2

Card 1/2

10 Jun 63
SO7: 002

ENCL: 00
OTHER: 000

rev. The end of the workpiece.

TSIRULINA, Z.V.

Photoacoustic characteristics of a sound track on multilayer
color film with separation processing. Trudy LIKI no. 5:5-14
'59.
(MIRA 13:12)

1. Kafedra zvukotekhniki Leningradskogo instituta kinoinshenerov.
(Sound--Recording and reproducing) (Color motion pictures)

BURGOV, V.A.; TSIRULINA, Z.V.; SEREDINSKIY, A.I.

Quality of an intensive phonogram. Trudy LIKI no.3:31-40 '55.

1. Kafedra zvukotekhniki.
(MLRA 9:8)
(Sound--Recording and reproducing)

SOV/112-59-3-6168

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 3, p 278 (USSR)

AUTHOR: Burgov, V. A., Tsirulina, Z. V., Seredinskiy, A. I., and
Barbanel', S. R.

TITLE: Light-Modulating System With a Ribbon Oscillograph for Sound
Phototranscribing (Svetomoduliruyushchaya sistema s lentochnym
ostsillografiom dlya fotograficheskoy zapisi (perezapisi) zvuka)

PERIODICAL: Tr. Leningr. in-ta kinoinzhenerov, 1956, Nr 4, pp 5-16

ABSTRACT: A light-modulating system with a permanent-magnet ribbon oscillo-
graph is described which is intended for phototranscribing sound by the methods
of variable density and variable area, standard, counter-phase, and "positive."
In the variable-area recording, the recording dot is formed by projecting the
illuminated mechanical slit upon the film, together with the oscillograph ribbon
and the noise-suppressing shutter. To make a variable-density recording, the
oscillograph and the noise-suppressing shutter must be turned by 90° and

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SOV/112-59-3-6168

Light-Modulating System With a Ribbon Oscillograph for Sound Phototranscribing focused in the plane of the inlet pupil of the cylindrical lens. The oscillograph ribbon made of "kol'chug" aluminum 0.17-mm wide, 0.01-mm thick, and 18-mm long (its vibrating part) is spanned on a frame with a tension of 40 g. The ribbon natural frequency is 8 kc; the response curve falls off by 2 db at a distance of 10 kc which is ensured by an electromagnetic damping of the ribbon. To ensure the maximum possible flux density in an air gap with the minimum size of the magnetic circuit, permanent magnets are made from "magniko," and the pole pieces from "permendur." The gap flux density is 28,000 gauss, gap length 18 mm, gap depth 1.5 mm, and gap width is 0.3 mm. The ribbon functions under constant-voltage conditions which are secured by the use of a deep-feedback amplifier in the output stage. The frequency response curve of the ribbon oscillograph is practically linear up to 10 kc with a blip at the 7 kc not exceeding ± 2.5 db. The amplitude characteristic taken at 1 kc is also linear. The ribbon resistance at AF is 0.75 ohms; the current consumed by

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SOV/112-59-3-6168
Light-Modulating System With a Ribbon Oscillograph for Sound Phototranscribing
the ribbon at 1 kc and 100% modulation is 80 ma; the power consumed is 4.5
mw. The above-described modulator was built by the Leningradskiy institut
kinoinzhenerov (Leningrad Institute of Cinema Engineers) jointly with
Tsentral'noye konstruktorskoye byuro (Central Design Bureau).

S.D.K.

Card 3/3

BURGOV, V.A.; TSIRULINA, Z.V.; SEREDINSKIY, A.I.; BARBANEL', S.L.

Modulated light system with a tape oscillograph for the photographic recording of sound. Trudy LIKI no.4:5-16 '56.

(MLRA 10:5).

1.Kafedra zvukotekhniki.

(Sound--Recording and reproducing)

24085

TSIKULINA, Z. V. K voprosu o vliyanii formy svetovogo shtrikha na kachestvo
poperechnoy fonografii. Trudy Leningr. IIL-TA kinoinzhenerov, VIP. 2, 1949,
S. 3-18.

SO: Letopis, No. 32, 1949.

GOLOGORSKIY, V.A., kand.med.nauk; TSIRUL'NIK, S.I.

Surface endotracheal anesthesia in serious gynecological operations.
Nauch.trudy Ghetv.Mosk.gor.klin.bol'. no.1:174-182 '61.

(MIRA 16:2)

1. Iz kafedry obshchey khirurgii pediatriceskogo fakul'teta
(zav. prof. G.P. Zaytsev) i ginekologicheskoy kliniki (zav. -
prof. V.N. Vlesov), kafedry akusherstva i ginekologii pedia-
tricheskogo fakul'teta (zav. prof. A.A. Lebedev) 2-go Moskov-
skogo gosudarstvennogo meditsinskogo instituta imeni N.I. Pirogova
na baze Moskovskoy gorodskoy klinicheskoy bol'nitsy №.4 (glavnnyy
vrach G.F. Papko).
(INTRATRACHEAL ANESTHESIA) (GYNECOLOGY, OPERATIVE)

TSIRUL'NIK, S.I.; GOLOGORSKIY, V.A.

Analgesic anesthesia with nitrous oxide in surgical gynecology.
Akush. i gin. no.2:31-37'63. (MIRA 16:10)

1. Iz kafedry akusherstva i ginekologii (zav. - prof. A.A. Lebedev) i kafedry obshchey khirurgii (zav. - prof. G.P. Zaytsev) pediatriceskogo fakul'teta II Moskovskogo meditsinskogo institutaimeni N.I.Pirogova.
(GYNECOLOGY, OPERATIVE) (NITROUS OXYDE)
(ANESTHESIA)

BRISKIN, A.I.; TSIRUL'NIK, S.I.

Some negative effects of succinylcholine (lysthenon) during prolonged use. Eksper. khir. i anest. no.2:77-82'63.

(MIRA 16:7)

1. Iz laboratorii farmakologii (zav.-kand.biol.nauk A.I.Briskin)
Vsesoyuznogo instituta eksperimental'noy endokrinologii i iz
ginekologicheskoy kliniki(zav.-prof. Vlasov, V.N.[deceased])
kafedry akusherstva i ginekologii (zav.-prof. A.A.Lebedev)
pedagogicheskogo fakul'teta II Moskovskogo meditsinskogo in-
stituta imeni N.I.Pirogova.

(DITLIN) (APNOEA) (HYPOTENSION)

GOLOGORSKIY, V.A.; TSIRUL'NIK, S.I.

Advantages of combined anesthesia with the use of muscle relaxants
in gynecologic surgery. Sov. med. 27 no.2:60-63 F '64.

(MIRA 17:10)

1. Kafedra obshchey khirurgii (zav. - prof. G.P. Zaytsev) i kafedra
akusherstva i ginekologii (zav. - prof. A.A. Lebedev) pediatriches-
kogo fakul'teta II Moskovskogo meditsinskogo instituta imeni Pirogova.

SHCHERBAN', O.N.; TSIRUL'NIKOV, A.S.

Mechanics of unexpected eruptions of coal and gas. Visnyk AN
URSR 26 no.11:24-36 N '55. (MLRA 9:2)
(Mine explosions)

TSIRUL'NIKOV, H.S.

USSR/Cosmochemistry. Geochemistry. Hydrochemistry.

D

Abs Jour : Referat. Zhurnal Khimiya, No 6, 1957, 18953.

Author : A.N. Shcherban', A.S. Tsirul'nikov.

Inst : Academy of Sciences of Ukrainian SSR.

Title : Determination of Methane Holding Capacity of Fossil Coals.

Orig Pub : Dopovidi AN URSR, 1956, No 4, 353-358.

Abstract : The methane holding capacity of six coal seams in the Donets basin was investigated. These seams are characterized by various stages of metamorphism and different physicochemical properties. A considerable portion of methane in coal is contained in closed pores and does not participate, or does not participate practically in the movements of a seam. The volume of closed pores varies within the limits of 20 to 50% of the total volume. The amount of methane in closed micropores and capillaries reaches 5 to 10 cub.m per ton. The gas diffusion through the walls between closed pores and its filtration from closed pores through capillaries

Card 1/2

-63-

USSR/Cosmochemistry. Geochemistry. Hydrochemistry.

Abs Jour : Referat. Zhurnal Khimiya, No 6, 1957, 18953. D

decrease together with the drop of pressure and
discontinue completely at a certain critical pressure
of the gas. Several methods are proposed in order to
improve the process of the determination of methane
contents in coal.

Card 2/2

-34-

TSRUL'N. N. [i.e. Tsvetkov, N.N., Rostovsko, V.P. (Vsevolodov, V.P.)]

Rock mass of gas liberation from coal cut off the massif.
Pop. n. 1000 no. 1318-1322 '64. MFA 17:12.

1. Institut teplonenergetiki i telergr. Predstavleno skademikom
VV Ural'skii G.U. Echarkhanov (Shanenkov), D.N.).

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001757120001-7

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001757120001-7"

TSIRUL'NIKOV, A.S. [TSyrul'nykov, A.S.]

Required quantity and efficient distribution of air for a mine
section working seams richly saturated with gas. Dop. AN URSR
no.7:728-731 '58. (MIRA 11:9)

1. Institut gornogo dela AN USSR. Predstavil akademik AN USSR A.N.
Shcherban [O.N. Shcherban'].
(Mine ventilation) 

KUROCHKIN, A.P.; LIND, A.B.; TSIHUL'NIKOV, I.M.

Units of pneumatic measuring systems. Stan. i instr.
31 no.7:25-27 J1 '60. (MIRA 13:7)
(Measuring instruments) (Pneumatic gauges)

S/121/60/000/007/006/011

AUTHORS: Kurochkin, A.P., Lind, A.B., Tsirul'nikov, I.M.TITLE: Assemblies of Pneumatic Measuring Systems

PERIODICAL: Stanki i Instrument, 1960, No. 7, pp. 25-27

TEXT: The Byuro vzaimozamenyayemosti (Office of Interchangeability) carried out investigations of filtering materials used in Soviet and foreign filters of various design in order to develop a new two-stage air filter. The investigations showed that most of the filters do not meet the requirements, since the greater part of the contaminated air, taking the course of least resistance, bypasses the filtering material and passes between filtering material and filter walls. As a result of the investigations, the Office of Interchangeability together with the "Kalibr" Plant has developed the TΦ (TF)-17-11 two-stage air filter, operating in the first stage with glass wool and in the second stage with the ΦИП (FPP)-15-1.5 grade filtering material. The authors give a detailed description of the filter operation and cite technical data. Simultaneously, investigations were carried out by the Office of Interchangeability in order to develop a new design of air pressure stabilizer, being also one of the most important units in pneumatic measuring systems.' The authors describe the design of the new TΦ (TF)-17-12

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Card 1/2

Assemblies of Pneumatic Measuring Systems

S/121/60/000/007/006/011

stabilizer with booster and gives technical and operational data. Filter and pressure stabilizer are also manufactured by the "Kalibr" Plant as one combined unit of the T ϕ (TF)-17-13 type, the overall dimensions of which are (diameter x height) 98 x 298 mm, weighing 2.17 kg. There are 2 diagrams and 1 photo.

✓

Card 2/2

GORBANENKO, A.D., kand.tekhn.nauk; TSIRUL'NIKOV, L.M., inzh.; CHUPROV, V.V., inzh.;
GVÖZDETSKIY, L.A., inzh.; KHASNOSELOV, G.K., inzh.; MYAKOTINA, A.Z., inzh.

Burning of liquid fuels in combustion chamber. Teploenergetika 10
no.4:44-49 Ap '63. (MIRA 16:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy teplotekhnicheskiy institut
i Bashkirenergo.
(Boilers) (Furnaces)

GORBANENKO, A.D., kand. tekhn. nauk; TSIRUL'NIKOV, L.M., inzh.;
KRASNOSELOV, G.K., inzh.; GELLER, Z.I., doktor tekhn. nauk;
LIPINSKIY, F.A., inzh.

Effectiveness of burning mazut. Elek. stat. 35 no.1:66-71
Ja '64.
(MIRA 17:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy teplotekhnicheskiy institut im Dzerzhinskogo (for Gorbanenko, TSirul'nikov).
2. Bashkirenergo (for Krasnoselov). 3. Groznenskiy neftyanoy institut (for Geller). 4. Novoufimskaya teploelektrotsentral' (for Lipinskiy).

TSIRUL'NIKOV, L.M., inzh.; GORBANENKO, A.D., kand.tekhn.nauk; ZHARKOV, B.L.,
kand.fiz.-mat.nauk

Stability of the expenditure characteristics of centrifugal burners
with high productive capacity. Teploenergetika 11 no.2:46-49
F '64.
(MIRA 17:4)

1. Vsesoyuznyy teplotekhnicheskiy institut.

TSIRUL'NIKOV, L.M., inzh.; GORBANENKO, A.D., kand. tekhn. nauk; ZHARKOV,
B.L., kand. fiz.-met. nauk

Study of small spray burners of high productive capacity.
Energomashinostroenie 10 no.11:27-29 N '64 (MIRA 18:2)

GORBANENKO, A.D., kand. tekhn. nauk; TSIRUL'NIKOV, L.M., inzh.;
KRASNOSELOV, G.K., inzh.

Mechanically caused incomplete combustion of a liquid fuel in
furnace combustion chambers. Elek. sta. 35 no.10:10-12 0'64.

(MIRA 17:12)

AKHIEBOV, R.B.; TSIEUL'NIKOV, I.M.; GORBANENKO, A.D.; ZHARKOV, B.I.

Experimental study of the operating characteristics of high-performance centrifugal pumps. Izv. AN UzSSR. Ser. tekhn. nauk 8 no.6:66-73 '64.
(MIRA 18:3)

1. Institut ispol'zovaniya topliva Gosneftekhimkomiteta pri Gosplane SSSR.

GVOZDETSKIY, L.A., inzh.; GORBANENKO, A.D., kand.tekhn.nauk; KARPOV,
V.V., inzh.; KRASNOSELOV, G.K., inzh.; TSIRUL'NIKOV, L.M., inzh.

Burning of Arlan petroleum with increased stabilization in boiler
furnaces. Elek. sta. 33 no.10;22-25 0 '62. (MIRA 16:1)
(Boilers) (Petroleum as fuel)

S/058/000/011/007/02
A058/A101

5.5450

AUTHOR: Tsirul'nikova, L.M.

TITLE: On the phenomenological theory of paramagnetic rotation in the transverse case

PERIODICAL: Referativnyy zhurnal. Fizika, no. 11, 1961, 129-130, abstract 11V260
(V sb. Paramagnitn. rezonans", Kazan, Kazansk. un-t, 1960, 156-157)

TEXT: The author calculates theoretically the angle of rotation φ of the polarization plane of a plane-polarized monochromatic radiofrequency wave passing through a layer of a paramagnetic perpendicularly to an applied magnetic field. It is shown that φ is proportional to the difference between the imaginary components of the transverse and longitudinal complex susceptibilities of the paramagnetic. The curve of φ vs the permanent magnetic field strength is plotted for fixed wave frequency. Theoretical results are in good agreement with experimental data.

[Abstracter's note: Complete translation]

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✓B

Tsirulinikova, L.M.

AUTHORS: Tsirulinikova, L.M. and Shaposhnikov, I.G.

TITLE: On Phenomenological Theory of Resonance Paramagnetic Rotation (K fenomeno logicheskoy teorii rezonansnogo paramagnitnogo vrashcheniya)

PERIODICAL: Izvestiya Akademii Nauk, Vol. XX, #11, pp 1251 - 1254
1956, USSR, Seriya fizicheskaya

ABSTRACT: A phenomenological theory of paramagnetic rotation is proposed for the waves of cm wavelength. It is assumed that the paramagnetic medium is isotropic in electrical respect and possesses a magnetic anisotropy caused by an external constant magnetic field.

A final formula shows that the angle of rotation depends on the frequency of the alternating field and on the intensity of the constant field. A graph in the article shows theoretical curves of paramagnetic

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TITLE: On Phenomenological Theory of Resonance Paramagnetic Rotation (K fenomenologicheskoy teorii rezonansnogo paramagnitnogo vrashcheniya)

resonance rotation, the course of which essentially depends on the value of parameter $a=\tau_s \omega$ (τ is spin-spin relaxation time, and ω is frequency of radio-wave) The analysis of these curves provides a new possibility of experimental determination of the isothermal spin relaxation time τ_s .

The bibliography lists 7 references, of which 6 are Slavic (Russian). The article contains 1 graph.

INSTITUTION: State University imeni A.M. Gorkiy in Moskva

PRESENTED BY:

SUBMITTED: No date

AVAILABLE: At the Library of Congress.

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TSIRUL'NIKOV, M.S., kand. med. nauk

Some data on the role of fibrinogen in hemorrhages during
labor and the early postpartum period. Akush. i gin. 39 no.5:
65-68 S-0 '63. (MIRA 17:8)

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